

RECENT ENTOMOLOGICAL LITERATURE.

Asterisks indicate descriptions of new species of American insects, or of new genera.

PERIODICALS CITED.

- 1 Proceedings Academy of Natural Sciences, Philadelphia.
- 2 Transactions American Entomological Society, Philadelphia.
- 4 Canadian Entomologist, London, Ontario.
- 5 Entomological News, Philadelphia.
- 6 Journal of the New York Entomological Society.
- 7 Bulletin of Division of Entomology, U. S. Dept. Agriculture.
- 8 Entomologists' Monthly Magazine, London, Eng.
- 10 Nature, London, Eng.
- 38 Wiener Entomologischer Zeitung.
- 46 Tijdschrift voor Entomologie, The Hague.
- 68 Science, N. Y. City.
- 102 Proceedings Entomological Society of Washington (D. C.).
- 140 Biological Bulletin, Wood's Holl, Mass.
- 151 Quarterly Journal of the Microscopical Society, London. Eng.
- 152 Bulletin, Ill. State Lab. of Natural History, Urbana, Ill.
- 153 Special report, Minn. Agr. Exp. Station, St. Anthony Park, Minn.
- 154 Proceedings Ohio State Academy of Science, Columbus, O.
- 155 State College Bulletin, Pullman, Washington.
- 156 Kansas University Science Bulletin, Lawrence, Kansas.

THE GENERAL SUBJECT.

Anon. Dr. Hans Herman Behr (obit.), 5 Apr. Dod, F. H. W. Jocular entomology, 4 June. Dyar, H. G., and Caudell, A. N. The types of genera, 6 xii, 120. Grinnell, F. An early collector in California (P. J. M. Lorquin), 5 June. Lankester, F. R. The structure and classification of the Arthropoda, 151 Mar. Smith, J. B. Some remarks on classification, 5 June. Snow, F. H. Lists of Coleoptera, Lepidoptera, Diptera and Hemiptera collected in Arizona by the entomological expedition of the University of Kansas in 1902 and 1903, 156 xii (whole series), May, 1904. Viereck, H. L. A case for Schmitt boxes, 5 June. Webster, F. W. Relation of the systematic to the economic entomologist, 5 June. H. F. W. The Rev. P. Jerome Schmitt (obit.), 4 July.

ECONOMIC ENTOMOLOGY.

- Assoc. Econ. Ent., Proceedings 16th annual meeting, 7 No. 46. Cook, O. F. An enemy of the cotton boll weevil, 68 June 3.

ARACHNIDA.

- Banks, N. The Arachnida of Florida,* 1 1904. New genera and species of Nearctic spiders,* 6 xii, 109, pl. V and VI. Chamberlin, R. V. Notes on generic characters in the *Lycosidae*, 4 May-June. Montgomery, T. H., Jr. Descriptions of North American Araneae of the families *Lycosidae* and *Pisauridae*,* 1 1904. Schaffer, T. H. The cocoon of the ray spider (*Theridiosoma gemmosum*), 4 June.

ODONATA.

- Calvert, P. P. *Thaumatoneura* again, 5 June.

NEUROPTERA.

- Currie, R. P. (a) *Hemerobiidae* from the Kootenay district of British Columbia, 102 VI, 81. (b) Notes on some *Hemerobiidae* from Arizona and California, 102 VI, 79.

TRICHOPTERA.

- Banks, N. Two new species of Hydroptilidae,* 5 Apr.

ORTHOPTERA.

- Caudell, A. N. (a) A new Forficulid from the Philippines, 6 XII, 108. (b) The synonymy of *Oedipoda cincta* Thomas, 102 VI, 125. Davis, W. T. An arboreal *Orchelimum*, 4 May. Rehn, J. A. G. (a) A new mantis of the genus *Stagmatoptera* from Nicaragua,* 4 Apr. (b) A new roach of the genus *Chorisoneura* from South Carolina,* 5 May. (c) Studies in the orthopterous family *Phasmidae*,* 1 1904. Walker, E. M. The crickets of Ontario, 4 May, July.

HEMIPTERA.

- Sanders, J. G. The *Coccidae* of Ohio, 154 IV, pt. 2, pl. 1-9. VanDuzee,

E. P. Annotated list of the *Pentatomidae* recorded from America north of Mexico, with descriptions of new species,* 2 XXX, no. 1.

See also Snow, under The General Subject.

COLEOPTERA.

Blanchard, F. A new Californian species of *Dromaeolus*,* 5 June. **Csiki, E.** New names for beetles, 38 May. [*Paralixus* and *Stigmomela* are proposed for preoccupied names]. **Davis, W. T.** Caterpillars attacked by Histers, 6 XII, 88. **Girault, A. A.** *Attelabus bipustulatus* (oviposition, formation of nidus, etc.), 5 June. **Kirby, W. F.** A formidable enemy to the cotton plant, 10 May 24. **Knaus, W.** The Coleoptera of the Sacramento mountains of New Mexico, II, 5 May. **Petri, Dr. K.** Description of some new species of *Lixus*, 38 Apr. **Reitter, E.** (a) Analytical revision of the coleopterous genus *Eusomus* Germ., 38 May. [Two new subgenera, *Eusomatulus* and *Euidosomus* are proposed]. (b) On four coleoptera of the Palaearctic fauna, 38 May. (c) Tables for determining the coleopterous genus *Cionus* Clairv. of Europe and adjoining lands, 38 Apr. **Schwarz, E. A.** A new Coccinellid enemy of the San Jose scale, 102 VI, 118. **Skinner, H.** New *Meloidae* from Arizona,* 5 June. **Stevenson, C.** *Aphodius erraticus* on Montreal Island, 4 June. **Webster, F. M.** Studies of the life-history, habits, and taxonomic relations of a new species of *Oberca* (*O. ulmicola* Chittenden), 152 VII, 1, pl. I-II.

See also Snow, under The General Subject, and Cook, under Economic Entomology.

DIPTERA.

Cockerell, T. D. A. Three new cecidomyiid flies,* 4 May. **Coquillett, D. W.** New Diptera from Central America,* 102 VI, 90. [Two new genera, *Chaetoclusia* and *Scutops*, are described]. **Dyar, H. G.** The life-history of *Culex varipalpus* Coq., 6 XIII, 90, pl. III. **Hine, J. S.** The Diptera of British Columbia,* I, 4 Apr. **Johnson, C. W.** A supplementary list of the Diptera of New Jersey, 5 May. **Smith, J. B.** Notes on some mosquito larvae found in New Jersey, 5 May. **Verrall, G. H.** List of British *Dolichopodidae* with tables and notes, 8 July. [Diagnostic tables]. **Webster, F. M.** Studies of the habits and development of *Neocerata rhodophaga* Coquillett, 152 VII, 15, pl. III. **Whitney, C. P.** Descriptions of some new species of *Tabanidae*,* 4 July.

See also Snow, under The General Subject.

LEPIDOPTERA.

- Barnes, W. New species of North American Lepidoptera,* 4 June, July.
- Bethune, C. J. S. Spinning methods of *Telega polyphemus*, 4 Apr. Brimley, C. S. List of *Sphingidae*, *Saturniidae* and *Ceratocampidae* observed at Raleigh, N. C., 5 Apr. Busck, A. A new Tineid genus [*Dorata*] from Arizona,* 102 VI, 123. Chapman, T. A. Note on drowning in lepidopterous larvae, 8 Apr. Cockle, J. W. A Syntomid far away from home, 4 July. [*Ceramidia butleri* at Kaslo, B. C.] Cook, J. H. and H. Notes on *Incisalia augustus*, 4 May. Dodge, G. M. and E. A. Notes on the early stages of *Catocala*, 4 Apr. Dyar, H. G. (a) Additions to the list of North American Lepidoptera,* 102 VI, 62, and VI, 103. [Five new genera are described: *Amiana*, *Psorosina*, *Varneria*, *Caudellia* and *Slossonella*]. (b) New Lepidoptera from the United States,* 6 XII, 105. [Nine new species and two new genera, *Ollia* and *Cabnia*, are described]. (c) Note on the genus *Leucophobetron* Dyar, 102 VI, 77. (d) Note on the larva of *Melanchroia geometroides* Walker, 102 VI, 77. (e) Note on the larva of *Therina somniaria* Hulst, 102 VI, 76. Fernald, C. H. (a) A new species and genus of North American *Choreutinae*,* 4 May. (b) On the genus *Proteopteryx*, 4 Apr. Fletcher, J. Descriptions of some new species and varieties of Canadian butterflies,* (plate), 4 May. Grinnell, F. A new *Thanaos* from southern California,* 5 Apr. Kearfott, W. D. (a) Micro-lepidoptera: suggestions, II, III, 5 Apr., May. (b) New Tortricids from Kaslo, B. C., and the Northwest,* 4 Apr. Meyrick, E. New Hawaiian Lepidoptera,* 8 June. Newcomb, W. W. Some notes, chiefly on the scarcity of Michigan Rhopalocera in 1903, 5 June. Pear-sall, R. F. (a) Another geometrid combination, 4 June. (b) A review of our Geometrid classification, 4 July. Packard, A. S. Sound produced by a Japanese Saturnian caterpillar, 6 XII, 92. Seifert, O. Life-history of *Sabulodes arcasaria*, 4 Apr. Smith, J. B. (a) New *Noctuidae* for 1904, I,* 4 June. (b) Remarks on the catalogue of the *Noctuidae* in the collection of the British Museum, 6 XII, 93, pl. IV. Taylor, G. W. A couple of queries, 4 May. VanDeventer, W. Micro-lepidoptera of Java,* 46 XLVII, 1, pl. I. II. [One new genus, *Spatularia*, and 15 new species described and figured]. Washburn, F. L. The Mediterranean flour-moth, *Ephestia kuehniella* Zell., 153 Feb. Webster, F. M. The spinning habits of North American *Attaci*, 4 May.

HYMENOPTERA.

- Anon.** How does a wasp live at home? 155 III, no. 6. **Ashmead, W. H.** (a) A new Alysiid from Ceylon, 5 Apr. (b) Descriptions of new Hymenoptera from Japan, 6 XII, 65. (c) New generic names in the *Chalcidoidea*, 102 VI, 126. [The new names proposed are *Eufroggattia*, *Eukochelea*, *Eusayia*, *Zaischnopsis*, *Prospaltella*, *Alophomyia*]. (d) Remarks on honey bees, 102 VI, 120. (e) Three new ichneumon-flies from Russia, 4 Apr. **Benton, F.** The specific name of the common honey bee, 102 VI, 71. **Bradley, J. C.** On *Ropronia garmani*, 5 June. **Brues, C. T.** Some new species of parasitic Hymenoptera,* 4 Apr. **Cameron, P.** Description of a new genus and four new species of Hymenoptera,* 2 XXX, no. 1. **Fernald, H. T.** The North American species of *Chlorion*, 5 Apr. **Fyles, T. W.** A new ichneumon (*Amesolytus pictus*),* 4 July. (b) A new Gelechiid, *Trichotaphe levisella*,* 4 July. (c) *Torymus thomsoni*, n. sp.,* 4 Apr. **Lutz, F. E.** Variation in bees, 140 Apr. **Phillips, E. F.** Variation in bees: a reply to Mr. Lutz, 140 June. **Titus, E. S. G.** Some new *Osmiinae* in the U. S. National Museum, 102 VI, 98. **Viereck, H. L.** The species of *Odontophotopsis*, 2 XXX, no. 1. **Viereck, H. L. et al.** Synopsis of bees of Oregon, Washington, British Columbia and Vancouver, 4 April, June, July. **Viereck, H. L., and Cockerell, T. D. A.** The *Philanthidae* of New Mexico, 6 XII, 84.

See also Cook, under Economic Entomology.